

Preface

In the present book, speech transmission quality is modeled on the basis of perceptual dimensions that are relevant for today's public-switched and packet-based telecommunication systems. The complete transmission path from the mouth of the speaker to the ear of the listener is regarded, and both narrowband (300–3400 Hz) as well as wideband (50–7000 Hz) speech transmission are taken into account. A new analytical assessment method is developed that allows the dimensions to be rated by non-expert listeners, and a new parametric model for the quality estimation of transmitted speech based on the perceptual dimensions is derived.

This book was created within the scope of my dissertation at the Institute of Communication Acoustics (IKA) at Ruhr-University Bochum, and to the largest extent at the Quality and Usability Lab at TU Berlin, which in turn is part of Telekom Innovation Laboratories (T-Labs). During the last years, a large number of individuals supported my scientific activities at both professional and personal levels. First of all, I owe my deepest gratitude to my colleague and supervisor Prof. Sebastian Möller for enabling this work, for his advice, for the scientific freedom he provided, for many fruitful discussions, and for the ongoing motivation, his patience, and his trust also in difficult times. I am truly indebted to Prof. Ulrich Heute for his interest in my work, his ideas, numerous inspiring discussions, and for his willingness to co-supervise and examine the present work. I would also like to thank my colleague Prof. Alexander Raake for the longstanding company through different stages of my scientific career, his ideas and the motivation, and for numerous intensive and in-depth discussions. I would not have met these excellent teachers if Prof. Jens Blauert had not introduced me to the fascinating topics of technical acoustics and communication acoustics in his Bochum lectures when I was an undergraduate, which I greatly appreciate.

I am particularly thankful to Kirstin Scholz for the productive and exciting collaboration over several years, for sharing her thoughts in countless valuable discussions, and for the review of large parts of an earlier version of this book. The close collaboration with Nicolas Côté was always a pleasure for which I would like to express him my gratitude. I am also very grateful to Lu Huo and Błażej Lewcio for contributing their expertise in many joint research efforts.

I would like to acknowledge the very friendly, diverse, and supportive atmosphere at T-Labs and I am obliged to many of my colleagues who supported and advised me in different concerns, in particular Ina Wechsung, Robert Schleicher, Sascha Spors, Jens Ahrens, Tim Polzehl, Benjamin Weiss, Benjamin Belmudez, Jan-Niklas Antons, Christine Kühnel, Marie-Neige Garcia, Anja Naumann, Matthias Geier, Juan-Pablo Ramirez, Klaus-Peter Engelbrecht, Pablo Vidales, and Niklas Kirschnick. Moreover, I would like to thank Irene Hube-Achter, Tobias Hirsch, Klaus-Jürgen Buß, and their great teams for the administrative support and for providing more than the obligatory resources. I am also very grateful to Falk Schiffner and Ulrike Stiefelhagen for the organization and realization of many auditory experiments. Besides these individuals, I would also like to thank all the “new” colleagues for their impressive support during my doctoral defence.

It is a great pleasure to thank Jens Berger, Hans-Wilhelm Gierlich, Vincent Barriac, and other colleagues from Study Group 12 of the International Telecommunication Union (ITU-T) for sharing their expertise and for being so open-minded to newcomers.

For their financial support, I am grateful to the Deutsche Forschungsgemeinschaft (DFG).

My special thanks go to my family and friends (to which many of the above-mentioned colleagues belong) for their empathy, their moral support, and for the joyful moments during the last years. Finally, and most important, I would sincerely like to thank Joanna. This work would not have been possible without all her support, her patience, and her ongoing encouragement.

Berlin, September 2012

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Dimension-based Quality Modeling of Transmitted
Speech

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2013, XII, 204 p., Hardcover

ISBN: 978-3-642-35018-4